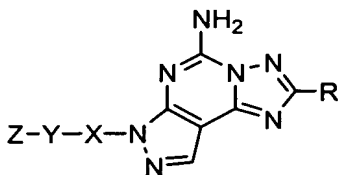
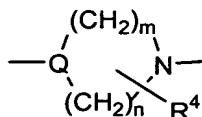


1,0500

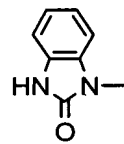


R is R<sup>1</sup>-furanyl, R<sup>1</sup>-thienyl, R<sup>1</sup>-pyridyl, R<sup>1</sup>-pyridyl N-oxide, R<sup>1</sup>-oxazolyl, R<sup>10</sup>-phenyl, R<sup>1</sup>-pyrrolyl or C<sub>4</sub>-C<sub>6</sub> cycloalkenyl;

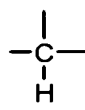
Y is  $-N(R^2)CH_2CH_2N(R^3)-$ ,  $-OCH_2CH_2N(R^2)-$ ,  $-O-$ ,  $-S-$ ,  $-CH_2S-$ ,  $-(CH_2)_2-NH-$ , or



Z is R<sup>5</sup>-phenyl, R<sup>5</sup>-phenyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sup>5</sup>-heteroaryl, diphenylmethyl, R<sup>6</sup>-C(O)-

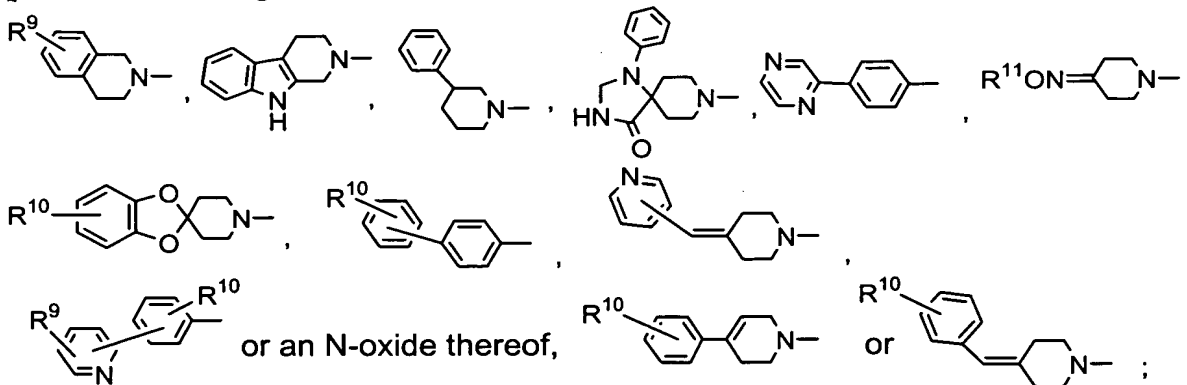


, R<sup>6</sup>-SO<sub>2</sub>-, R<sup>6</sup>-OC(O)-, R<sup>7</sup>-N(R<sup>8</sup>)-C(O)-, R<sup>7</sup>-N(R<sup>8</sup>)-C(S)-,  $\overset{\overset{\text{O}}{\parallel}}{\text{C}}$ , phenyl-CH(OH)-, or



phenyl-C(=NOR<sup>2</sup>)-; or when Q is  $\text{H}$ , Z is also phenylamino or pyridylamino;  
or

Z and Y together are

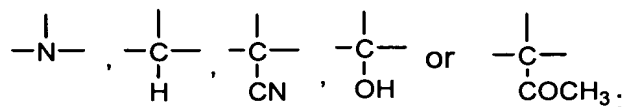


$R^1$  is 1 to 3 substituents independently selected from hydrogen,  $C_1$ - $C_6$ -alkyl,  $-CF_3$ , halogen,  $-NO_2$ ,  $-NR^{12}R^{13}$ ,  $C_1$ - $C_6$  alkoxy,  $C_1$ - $C_6$  alkylthio,  $C_1$ - $C_6$  alkylsulfinyl, and  $C_1$ - $C_6$  alkylsulfonyl;

$R^2$  and  $R^3$  are independently selected from the group consisting of hydrogen and  $C_1$ - $C_6$  alkyl;

m and n are independently 2-3;

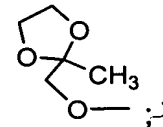
Q is



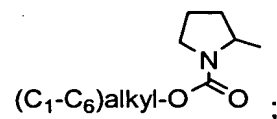
$R^4$  is 1-2 substituents independently selected from the group consisting of hydrogen and  $C_1$ - $C_6$ alkyl, or two  $R^4$  substituents on the same carbon can form  $=O$ ;

$R^5$  is 1 to 5 substituents independently selected from the group consisting of hydrogen, halogen,  $C_1$ - $C_6$  alkyl, hydroxy,  $C_1$ - $C_6$  alkoxy,  $-CN$ , di-(( $C_1$ - $C_6$ )alkyl)amino,  $-CF_3$ ,  $-OCF_3$ , acetyl,  $-NO_2$ , hydroxy( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )-alkoxy( $C_1$ - $C_6$ )alkoxy, di-(( $C_1$ - $C_6$ )-alkoxy)( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )-alkoxy( $C_1$ - $C_6$ )alkoxy-( $C_1$ - $C_6$ )-alkoxy, carboxy( $C_1$ - $C_6$ )-alkoxy, ( $C_1$ - $C_6$ )-alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_3$ - $C_6$ )cycloalkyl( $C_1$ - $C_6$ )alkoxy, di-(( $C_1$ - $C_6$ )alkyl)amino( $C_1$ - $C_6$ )alkoxy, morpholinyl, ( $C_1$ - $C_6$ )alkyl- $SO_2$ -, ( $C_1$ - $C_6$ )alkyl- $SO$ -( $C_1$ - $C_6$ )alkoxy, tetrahydropyranyloxy, ( $C_1$ - $C_6$ )alkylcarbonyl( $C_1$ - $C_6$ )-alkoxy, ( $C_1$ - $C_6$ )-alkoxycarbonyl, ( $C_1$ - $C_6$ )alkylcarbonyloxy( $C_1$ - $C_6$ )-alkoxy,  $-SO_2NH_2$ , phenoxy,

10571

( $C_1$ - $C_6$  alkyl)  
 $-\overset{\overset{|}{\text{C}}}{\text{C}}=NOR^2$  ,  ; } or adjacent  $R^5$  substituents together are  $-O-CH_2-O-$ ,  $-O-CH_2CH_2-O-$ ,  $-O-CF_2-O-$  or  $-O-CF_2CF_2-O-$  and form a ring with the carbon atoms to which they are attached;

$R^6$  is ( $C_1$ - $C_6$ )alkyl,  $R^5$ -phenyl,  $R^5$ -phenyl( $C_1$ - $C_6$ )alkyl, thienyl, pyridyl, ( $C_3$ - $C_6$ )cycloalkyl, ( $C_1$ - $C_6$ )alkyl- $OC(O)-NH-(C_1$ - $C_6$ )alkyl-, di-(( $C_1$ - $C_6$ )alkyl)aminomethyl, or



$R^7$  is ( $C_1$ - $C_6$ )alkyl,  $R^5$ -phenyl or  $R^5$ -phenyl( $C_1$ - $C_6$ )alkyl;

A

$R^8$  is hydrogen or  $C_1-C_6$  alkyl; or  $R^7$  and  $R^8$  together are  $-(CH_2)_p-A-(CH_2)_q$ , wherein  $p$  and  $q$  are independently 2 or 3 and  $A$  is a bond,  $-CH_2-$ ,  $-S-$  or  $-O-$ , and form a ring with the nitrogen to which they are attached;

$R^9$  is 1-2 groups independently selected from hydrogen,  $C_1-C_6$  alkyl, hydroxy,  $C_1-C_6$  alkoxy, halogen,  $-CF_3$  and  $(C_1-C_6)alkoxy(C_1-C_6)alkoxy$  ;

$R^{10}$  is 1 to 5 substituents independently selected from the group consisting of hydrogen, halogen,  $C_1-C_6$  alkyl, hydroxy,  $C_1-C_6$  alkoxy,  $-CN$ ,  $-NH_2$ ,  $C_1-C_6alkylamino$ , di- $((C_1-C_6)alkyl)amino$ ,  $-CF_3$ ,  $-OCF_3$  and  $-S(O)_{0-2}(C_1-C_6)alkyl$ ;

$R^{11}$  is H,  $C_1-C_6$  alkyl, phenyl, benzyl,  $C_2-C_6$  alkenyl,  $C_1-C_6$  alkoxy $(C_1-C_6)alkyl$ , di- $((C_1-C_6)alkyl)amino(C_1-C_6)alkyl$ , pyrrolidinyl $(C_1-C_6)alkyl$  or piperidino $(C_1-C_6)alkyl$ ;

$R^{12}$  is H or  $C_1-C_6$  alkyl; and

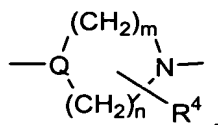
$R^{13}$  is  $(C_1-C_6)alkyl-C(O)-$  or  $(C_1-C_6)alkyl-SO_2-$ ;

wherein heteroaryl is a single ring or benzofused heteroaromatic group, or an N-oxide thereof, of 5 to 10 atoms comprised of 2 to 9 carbon atoms and 1 to 4 heteroatoms independently selected from the group consisting of N, O and S, provided that the rings do not include adjacent oxygen atoms, adjacent sulfur atoms, or adjacent oxygen and sulfur atoms.

2. (Original) A compound of claim 1 wherein R is  $R^1$ -furanyl.

3. (Original) A compound of claim 1 wherein X is  $C_2-C_6$  alkylene.

4. (Original) A compound of claim 1 wherein Y is



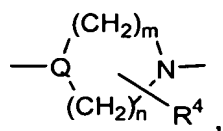
5. (Original) A compound of claim <sup>4</sup>~~5~~ wherein Q is  $-N-$  or  $-CH-$ .

6. (Original) A compound of claim 5 wherein  $m$  and  $n$  are each 2, and  $R^4$  is H.

7. (Original) A compound of claim 1 wherein Z is  $R^5$ -phenyl,  $R^5$ -heteroaryl,  $R^6-C(O)-$  or  $R^6-SO_2-$ .

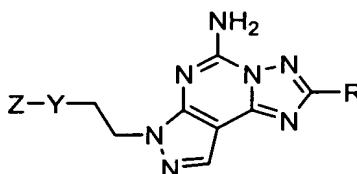
8. (Original) A compound of claim 7 wherein  $R^5$  is H, halogen,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkoxy, hydroxy( $C_1$ - $C_6$ )alkoxy or ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, or  $R^6$  is  $R^5$ -phenyl.

9. (Original) A compound of claim 1 wherein R is  $R^1$ -furanyl, X is  $C_2$ - $C_6$  alkylene, Y is



Q is  $\text{---N---}$  or  $\text{---CH---}$ , m and n are each 2,  $R^4$  is H, Z is  $R^5$ -phenyl,  $R^5$ -heteroaryl,  $R^6$ -C(O)- or  $R^6$ -SO<sub>2</sub>-,  $R^5$  is H, halogen,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkoxy, hydroxy( $C_1$ - $C_6$ )alkoxy or ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, and  $R^6$  is  $R^5$ -phenyl.

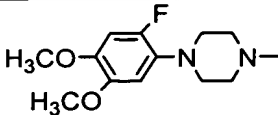
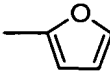
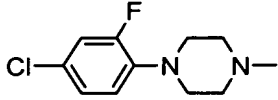
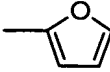
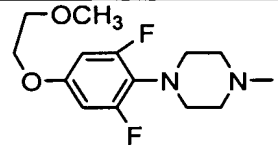
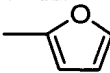
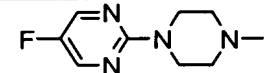
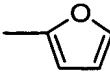
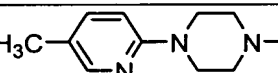
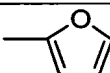
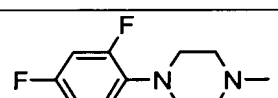
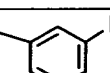
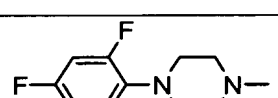
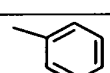
10. (Original) A compound of claim 1 selected from the group consisting of compounds of the formula



wherein R and Z-Y are as defined in the following table:

| Z-Y- | R |
|------|---|
|      |   |
|      |   |
|      |   |
|      |   |
|      |   |

A

|   |  |
|---|--|
|    |    |
|    |    |
|    |    |
|    |    |
|    |    |
|   |    |
|  |  |

<sup>14</sup>  
11. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 in a pharmaceutically acceptable carrier.

<sup>15</sup>  
12. (Original) A method of treating central nervous system diseases or stroke, comprising administering an effective amount of a compound of formula I to a mammal in need of such treatment.

<sup>16</sup>  
13. (Original) A method of claim <sup>15</sup>12 for treating depression, cognitive diseases and neurodegenerative diseases.

<sup>17</sup>  
14. (Original) A method of claim <sup>16</sup>13 for treating Parkinson's disease, senile dementia or psychoses of organic origin.

Claims 15-20 (Withdrawn)

A

11  
A3  
21. (New) A compound of claim 1 wherein Z is R<sup>5</sup>-heteroaryl and heteroaryl is selected from the group consisting of pyridyl, oxazolyl, isoxazolyl, oxadiazolyl, furanyl, pyrrolyl, thienyl, imidazolyl, pyrazolyl, tetrazolyl, thiazolyl, isothiazolyl, thiadiazolyl, pyrazinyl, pyrimidyl, pyridazinyl, triazolyl, indolyl, quinolyl, isoquinolyl, phthalazinyl, benzothienyl, benzimidazolyl, benzofuranyl, benzoxazolyl and benzofurazanyl, or an N-oxide thereof.

12  
22. (New) A compound of claim 21 wherein heteroaryl is selected from the group consisting of pyridyl, pyridyl N-oxide, thiazolyl, pyrazinyl, pyrimidyl, quinolyl and benzimidazolyl.

13  
23. (New) The compound having the structure

